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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/565,047	01/17/2006	Andrew Shaun Treen	06044	5374
	7590 06/22/200 BOEHNEN HULBER	RT & BERGHOFF LLP		INER
300 S. WACKI	300 S. WACKER DRIVE		GREGORY, BERNARR E	
32ND FLOOR CHICAGO, IL		·	ART UNIT PAPER NUMBER	
,			3662	
			MAIL DATE	DELIVERY MODE
	. •		06/22/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary		Application No.	Applicant(s)			
		10/565,047	TREEN ET AL.			
		Examiner	Art Unit			
		Bernarr E. Gregory	3662			
Period fe	The MAILING DATE of this communication app or Reply	pears on the cover sheet with the o	correspondence address			
WHIC - Exte after - If NC - Faild Any	CHEVER IS LONGER, FROM THE MAILING DATE OF THE MAILING OF THE MAIL	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tinuity will apply and will expire SIX (6) MONTHS from the cause the application to become ABANDONE	N. mely filed the mailing date of this communication. ED (35 U.S.C. § 133).			
Status	•		,			
1)⊠	Responsive to communication(s) filed on 25 Ap	<u>oril 2007</u> .				
2a) <u></u>						
3)[Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
	closed in accordance with the practice under E	Ex parte Quayle, 1935 C.D. 11, 4	53 O.G. 213.			
Disposit	ion of Claims					
4)⊠	Claim(s) <u>2,3,5-15,18,20,22,23 and 26-30</u> is/are pending in the application.					
,—	4a) Of the above claim(s) is/are withdraw					
5)□	Claim(s) is/are allowed.					
6)⊠	Claim(s) 2,3,5-15,18,20,22,23 and 26-30 is/are	e rejected.				
7)	Claim(s) is/are objected to.					
8)□	Claim(s) are subject to restriction and/or	r election requirement.				
Applicat	ion Papers					
9)[The specification is objected to by the Examine	r.				
10)	The drawing(s) filed on is/are: a) acce	epted or b) objected to by the	Examiner.			
	Applicant may not request that any objection to the	drawing(s) be held in abeyance. Se	e 37 CFR 1.85(a).			
	Replacement drawing sheet(s) including the correct	ion is required if the drawing(s) is ob	pjected to. See 37 CFR 1.121(d).			
11)	The oath or declaration is objected to by the Ex	caminer. Note the attached Office	Action or form PTO-152.			
Priority (under 35 U.S.C. § 119	•				
-	Acknowledgment is made of a claim for foreign ☐ All b)☐ Some * c)☐ None of:	priority under 35 U.S.C. § 119(a)-(d) or (f).			
	1. Certified copies of the priority documents	s have been received.				
	2. Certified copies of the priority documents	s have been received in Applicat	ion No			
	3. Copies of the certified copies of the prior	rity documents have been receive	ed in this National Stage			
	application from the International Bureau	u (PCT Rule 17.2(a)).				
* (See the attached detailed Office action for a list	of the certified copies not receive	ed.			
	•					
Attachmer	nt(s)	_				
	ce of References Cited (PTO-892)	4) Interview Summary Paper No(s)/Mail D				
3) Infor	ce of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO/SB/08) er No(s)/Mail Date	5) Notice of Informal F				

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1. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

2. Claims 26-30 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

On line 5 of newly-amended independent claim 2, the use of the word "flexible" is indefinite and unclear in context in that the term is relative. No material is absolutely rigid. All materials have some degree of flexibility. Thus, it is not clear in context what degree of relative flexibility is meant by the use of the word "flexible" in claim 2. The same problem occurs is in the newly-added dependent claim 27.

In independent claims 2 and 26 and in dependent claims 3, 9, and 20, since λ_{min} and λ_{max} (including fractions of these) are not defined in the claims, limitations relating to the wavelength are unclear and have no limiting effect.

Similarly, in independent claims 2 and 26, the term "sub-wavelength dimension" is indefinite and unclear in that the wavelength used as a point of reference is not defined.

In dependent claim 28, "bigrating" is unclear in context. Please see 37 CFR §1.75(d)(1).

In dependent claim 29, the term "actively variable refractive index" is unclear in context. Please see 37 CFR §1.75(d)(1).

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Newly-added dependent claim 30 is unclear in that it attributes the positions of both conductors and the "dielectric" to the placement of only one of the conductors, where it would be all three (each conductor and the dielectric) that are "arranged" (line 2).

Dependent claims 3, 5-15, 18, 20, 22, 23, and 27-30 are unclear in that they depend respectively from unclear independent claims 2 and 26.

- 3. Claims 2 and 26 would be allowable if rewritten or amended to overcome the rejection(s) under 35 U.S.C. 112, 2nd paragraph, set forth in this Office action.
- 4. Claims 3, 5-15, 18, 20, 22, 23, and 27-30 would be allowable if rewritten to overcome the rejection(s) under 35 U.S.C. 112, 2nd paragraph, set forth in this Office action and to include all of the limitations of the base claim and any intervening claims.
- 5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

The examiner-cited prior art herewith is of interest as showing conductors with slits in them that may be placed against dielectrics as claimed in this application.

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6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Bernarr E. Gregory whose telephone number is (571) 272-6972. The examiner can normally be reached on weekdays from 7:30 AM to 4:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thomas H. Tarcza, can be reached on (571) 272-6979. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Bernarr E. Gregory Primary Examiner Art Unit 3662